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UNITED STATES DEPARTMENT OF AGRICULTURE

BUREAU OF ENTOMOLOGY

FOREST INSECT INVESTIGATIONS

COLEOPTERA - CURCULIONIDAE

Hopkins U. S. Notes

SPECIES INCLUDED IN NOTES OF
PORTLAND STATION

Order: COLEOPTERA
Family: Curculionidae

Balaninus uniformis Lec.	Rhynchites bicolor Fabr.
Cossonus crenatus Horn	Rhyncolus brunneus Mann.
Cossonus piniphilus Boh.	Ryncolus dorsalis Lec.
Cossonus ponderosae VanDyke	Rhyncolus oregonensis Horn.
Cossonus Sp.	Rhncolus sp.
Cylindrocopturus longulus Lec var	Rhyncophora
Cylindrocopturus longulus Lec.	Scythropus elegans Couper.
Dorytomis histricula Csy.	Scythropus sp.
Dyslobus lecontei Csy.	Scythropus californicus Horn.
Gelus californicus Lec.	
Magdalis lecontei Horn	
Magdalis Sp.	
Phloeonomus pusillus	
Possodes californicus	
Pissodes engelmanni Hopk.	
Pissodes fasciatus	
Pissodes murrayanae Hopk.	
Pissodes piperi Hopk.	
Pissodes radiatae Hopk.	
Pissodes sitchensis	
Pissodes Sp.	
Pissodes terminalis	
Pissodes yosemite Hopk.	
Podapion gallicola	

COSSONUS CRENATUS Horn

Order: COLEOPTERA
Family: Curculionidae

Pinus ponderosa

- 18125c² Klamath Falls, Ore. 7/11/27 F. P. Keen, Colr.
Cossonus crenatus
- 18126a,n Klamath Falls, Ore. 7/19/27 F. P. Keen, Colr.
Cossonus sp. found few adults on surface of sapwood.
Rhyncophora-small to full grown larvae and pupae and new
adults in horizontal galleries and in pin holes deep into
sapwood. May be two species.
- 18127a Klamath Falls, Ore. 7/19/27 F. P. Keen, Colr.
Adults abundant. Two adults found at end of guathotrichus
holes.
- 18128d Klamath Falls, Ore. 7/20/27 F. P. Keen, Colr.
Cossonus crenatus adults
- 18131b,m Jenny Creek, Oregon 8/1/27 F. P. Keen, Colr.
Cossonus crenatus adult in horizontal mines in sapwood.
Cossonus crenatus-larvae pupae and new adults.
- 18135g Lookout, Calif. 10/3/27 MHE, Colr.
J. W. 114 taken from under bark, secondary enemies.
- 18128r Klamath Falls, Ore. 7/20/27 F. P. Keen, Colr.
Cossonus crenatus-adults in small round pin holes in inner
portion of sapwood.
- 18813bb Keno, Oregon 9/15/30 J. A. Beal, Colr.
Cossonus crenatus Horn, alc.

COSSONUS PONDEROSAE VanDyke

Order: COLEOPTERA
Family: Curculionidae

Pinus ponderosa

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|--------|---|---------|-------------------------|
| 18107o | Bonanza, Ore. | 5/26/27 | W. J. Buckhorn, Colr. |
| | Middle Fork Eel River, Cal. | | A. E. Weislander, Colr. |
| | Under bark of HW 5302 <i>Cossonus ponderosae</i> adult. | | |
| 18109e | Bonanza, Ore. | 5/26/27 | F. P. Keen, Colr. |
| | <i>Cossonus ponderosae</i> adult. | | |
| 18114d | Bly, Oregon | 6/6/27 | W. J. Buckhorn, Colr. |
| | <i>Cossonus ponderosae</i> adults. | | |
| 18115g | Bly, Oregon | 6/6/27 | W. J. Buckhorn, Colr. |
| | <i>Cossonus ponderosae</i> adult | | |
| 18118b | Bly, Oregon | 6/3/27 | W. J. Buckhorn, Colr. |
| | <i>Cossonus ponderosae</i> adults. | | |
| 18121d | Bly, Oregon | 6/17/27 | F. P. Keen, Colr. |
| | <i>Cossonus</i> sp. in sapwood of dead tree. | | |
| 18129a | Klamath Falls, Oregon | 7/21/27 | F. P. Keen, Colr. |
| | <i>Cossonus ponderosae</i> many larvae in sapwood of dead tree. | | |
| 18131n | Jenny Creek, Oregon | 8/1/27 | F. P. Keen |
| | <i>Cossonus ponderosae</i> -larvae, pupae in mines. | | |
| 18132b | Klamath Falls, Oregon | 8/6/27 | F. P. Keen, Colr. |
| | <i>Cossonus ponderosa</i> -adults feeding on sapwood with <i>rhyncolus oregonensis</i> , but not found in the wood. | | |

COSSONUS SP

Order: COLEOPTERA
Family: Curculionidae

Pinus ponderosa

- 18110b Deming Cr., Bly, Ore. 6/3/27 F. P. Keen, Colr.
Small white curved larvae(Rhyncophoral) mining blue stained moist sapwood at base of tree. Mines irregularly round and wasted on inside with packed frass. Mines mostly horizontal.
- 18122a Bly, Oregon 6/4/27 F. P. Keen, Colr.
Cossonus sp. Very small white larvae making very small pin holes perfectly round, deep into sapwood and nearer the surface running crosswise with the grain. Found in moist blue stained slightly punky wood and into harder sapwood.
- 18113e Bly, Oregon 6/6/27 W. J. Buckhorn
Rhyncophora larvae small white curved in rotting wood.
- 18126g Klamath Falls, Oregon 7/19/32 F. P. Keen, Colr.
Rhyncophora-Very small pin hole larvae working through fairly hard wood.
- 18132h- Klamath Falls, Oregon 8/6/27 F. P. Keen, Colr.
Cossonus-larvae in wood.
- 18133g Lakeview, Oregon 8/29/27 F. P. Keen, Colr.
Cossonus-new adult and larvae in wood of standing tree.
- 18147i Klamath Falls, Oregon 6/28/28 F. P. Keen, Colr.
Cossonus larvae found in hard slightly moist wood of IW 379, also found larvae in FW 499, small to full grown. Few adults under bark. Mostly dead.
- 1880ln Willow Ranch-Cal 6/24/29 J. A. Beal, Colr.
Cossonus sp.
- 18109o Bonanza, Oregon 5/26/27 F. P. Keen, Colr.
Rhyncophonous looking larvae, small, curved and white.

CYLINDROCOPTURUS LONGULUS Lec

Order: COLEOPTERA
Family: Curculionidae

Pinus ponderosa

18801j	Willow Ranch, Calif. Cylindrocopturus longulus.	6/24/29	J. A. Beal, Colr.
18813aa	Keno, Oregon Cylindrocopturus longulus.	9/15/30	J. A. Beal, Colr.

GELUS CALIFORNICUS Lec

Order: COLEOPTERA
Family: Curculionidae

Pinus ponderosa

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|--------|--|---------|------------------------|
| 18145b | Pinehurst, Oregon | 6/8/28 | F. P. Keen, Colr. |
| | Piazurus californicus adults in galleries. | | |
| 18180d | Toppenish, Wash. | 8/9/30 | F. P. Keen, Colr. |
| | Gelus californicus | | |
| 18816b | Bend, Oregon | 7/30/31 | J. A. Beal, F. P. Keen |
| | | | Colrs. |
| | Diptera sp. | | |

MAGDALIS LECONTEI Horn.

Order: COLEOPTERA
Family: Curculionidae

Pinus ponderosa

18189f	Klamath Falls, Oregon	F. P. Keen, Colr.	1930
	Magdalis lecontei.		
	5/13/31-----2		
	2/16/33 Case Closed		
18806a	Clover Creek, Oregon	7/16/29	J. A. Beal, Colr.
	Weevils magdalis		
18954b	Fort Rock, Ore	10/23/31	F. P. Keen, Buck, Colrs
	Magdalis lecontei		
18816a	Deschutes, N. F. Bend, Ore	7/10/31	J. A. Beal, Colr.
	Adult weevils taken in large numbers from terminal and lateral shoots of ponderosa pine saplings. These weevils were causing serious injury, curling and dying of attacked shoots. Weevils inserted snouts in new shoots and feet by sucking juices from tree. Injury common and quite serious in areas of recent cutting.		
18954b	Fort Rock, Oregon	10/23/31	F. P. Keen, W. J. Buckhorn Colrs.
	Rearing Notes		
	5/17/32-----1		
	2/15/33-----7		
	5/9/33-----4		
	6/17/33-----4		
	12/14/33-----2		
	12/14/33---Case-Closed		

RHYNCOLUS BRUNNEUS Mann.

Order: COLEOPTERA
Family: Curculionidae

Tsuga heterophylla

- 20507b Wilson Riv. Tillamook, Oregon 7/15/30 BHW
Tree was standing and alive but on one side the bark was off, either from lightening or another tree dropping and scraping it. Wood on this side was infested by wood borers. Look like ambrosia beetles. Adults and larvae collected in sapwood. Tunnels do not go far into heartwood in this case.
- 20509a Wilson Riv. Tillamook, Oregon 7/18/30 BHW
Living tree with one side injured and the bark dead. Apparently injured in roots by a fire. The bark on one side was easily removed and wood beneath was dry and injured by insects. Small wood borers.
- 20511 Wilson Riv. Tillamook, Oregon 7/21/30 BHW
Small dead tree up road from Harrington camp. Recently killed by being shaded out by larger hardwoods. Bark still intact and branches still on tree. Small wood borers.

RHYNCOLUS OREGONENSIS Horn.

Order: COLEOPTERA
Family: Curculionidae

Pinus ponderosa

- 18100e Royston, Oregon 5/25/27 F. P. Keen, Colr.
Trees killed by D. b. in winter of 1925 (IW). Sapwood moist.
- 18106g Bonanza, Oregon 5/26/27 ME, Colr.
Trees killed by barkbeetles in 1925 (IS & IW) trees examined.
Under bark of IS 147-Coleoptera-small beetle.
- 18107z Bonanza, Oregon 5/26/27 WJB, Colr.
In hard and pitchy wood of HW 5302-Rhyncolus adult.
- 18110c Bly, Oregon 6/3/27 F. P. Keen, Colr.
Tree D26. Black-bark loose and dry underneath. Killed by Db
in 1920. Spotted by F. P. K. in 1921. Wood, except at base,
dry and hard deeply weather checked. Rhyncolus sp. in firm
moist blue-stained sapwood, near surface at base of tree.
(2 adults).
- 18112e Bly, Oregon 6/4/27 F. P. Keen, Colr.
Trees killed in the summer of 1924 (H. S.) by D. brevicomis
examined for insects. Wood mostly dry and hard. Rhyncolus
adults.
- 18113f Bly, Oregon 6/6/27 WJB, Colr.
Tree (#XFS) killed in the summer of 1922 examined for infesting
insects. Wood moist, muchly worked by borers and starting to
get punky. Heartwood solid. Rhyncolus sp. in outer sapwood.
- 18121j Bly, Oregon 6/17/27 F. P. Keen, Colr.
Tree (EW29) killed in fall of 1921 by Db examined for insects.
Wood above 3' from ground dry and hard, still round but deeply
weather checked.
- 18125cl Klamath Falls, Oregon 6/11/27 F. P. Keen, Colr.
Trees killed and abandoned by barkbeetles. GW 801. Wood
hard, blue stained and partly punky. Cossonus sp. Larvae,
pupae and new adults in mines about 1/2" under surface, hori-
zontal and tangential.

(1) Cerambycid, small pupa in oval hole in sapwood along
with Rushia californica.

RHYNCOLUS OREGONENSIS Horn

Order: COLEOPTERA
Family: Curculionidae

Pinus ponderosa

- 18126A1 Klamath Falls, Ore. 7/19/27 F. P. Keen, Colr.
Trees killed in summer and fall of 1924 examined for infesting insects. Tree HS 693. Bark thin and tight. Sapwood very punky in places
- 18127L Klamath Falls, Ore. 7/19/27 F. P. Keen, Colr.
Trees killed in summer of 1926 (JS) by *D. brevicornis*. Foliage on and red. Polyphorus prominent. Under bark moist and some fungus growth. *Thyncolus oregonensis* chopped out of the hard wood of an old fallen log. Adults construct galleries deep into wood ~~radially~~ radially and horizontally. Tenor more adults found in a single gallery working side by side.
- 18129h Klamath Falls, Oregon 7/21/29 F. P. Keen, Colr.
Trees killed by barkbeetles in summer of 1923 (GS 424) Wood moist and still fairly hard but riddled with wormholes. Only slightly punky. Adults deep in wood.
- 18130e Klamath Falls, Oregon 8/7/27 F. P. Keen, Colr.
Very old log on the ground, bleached white, in bark; a shell of fairly hard sapwood and interior of punky heartwood. Adult, larvae & pupae found. Adults in very dry sapwood.
- 18132a Klamath Falls, Oregon. 8/6/27 F. P. Keen, Colr.
Trees killed by barkbeetles examined for insects. E3522 Wood dry and hard, much riddled by insect holes but now completely abandoned. GW (?) Wood sound and hard but still moist. *Rhyncolus oregonensis* working in dry wood making horizontal tunnels into sapwood.
- 18147k Klamath Falls, Oregon 6/28/28 F. P. Keen, Colr.
Old trees of various sizes killed by insects in different years examined for infesting insects. *Rhyncolus oregonensis* adults and larvae working in dry wood of IW 679, in dry wood of FW 253.

RHYNCOLUS Sp.

Order: COLEOPTERA
Family: Curculionidae

Pinus ponderosa

- 18106f Bonanza, Oregon 5/26/27 ME, Colr.
Trees killed by barkbeetles in 1925 (IS & IW) trees examined.
In wood of IS 100-Coleoptera-small beetle.
- 18106o Bonanza, Oregon 5/26/27 ME, Colr.
Under bark of IS 93 Rhyncolus adult.